

WEST Search History

DATE: Thursday, May 13, 2004

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	DB=USPT; PLUR=YES; OP=AND		
<input type="checkbox"/>	L1	neri.in.	289
<input type="checkbox"/>	L2	L1 and fibronect\$	0
<input type="checkbox"/>	L3	fibronect\$	6267
<input type="checkbox"/>	L4	domain or region or portion or moiety or moieties or fragment or subfragment or sub-fragment or section or peptide or epitope	2656412
<input type="checkbox"/>	L5	L4 same l3	2763
<input type="checkbox"/>	L6	L5 same (scfv or sc-fv or fv or monoclonal or hybridoma or chimeric or chimera or humanized or construct or antibodies or antibody)	786
<input type="checkbox"/>	L7	L6 and (extra or angiogenesis or tumor or vasculature or extracellular or foetal or ed or edb or ed-b)	759
<input type="checkbox"/>	L8	L6 and (angiogenesis or tumor or vasculature or extracellular or foetal or edb or ed-b)	715
<input type="checkbox"/>	L9	L6 and (angiogenesis or tumor or extracellular or foetal or edb or ed-b)	711
<input type="checkbox"/>	L10	L6 same (extra or angiogenesis or tumor or vasculature or extracellular or foetal or ed or edb or ed-b)	357
<input type="checkbox"/>	L11	L6 same (extra or angiogenesis or tumor or extracellular or foetal or edb or ed-b)	328
<input type="checkbox"/>	L12	L6 same (angiogenesis or tumor or extracellular or foetal or edb or ed-b)	321
<input type="checkbox"/>	L13	L6 same (angiogenesis or tumor or foetal or edb or ed-b)	129
<input type="checkbox"/>	L14	L3.clm.	726
<input type="checkbox"/>	L15	L4.clm.	1441895
<input type="checkbox"/>	L16	L15 and l14	346
<input type="checkbox"/>	L17	L16 and (scfv or sc-fv or fv or monoclonal or hybridoma or chimeric or chimera or humanized or construct or antibodies or antibody or singlechain or single-chain or (single near chain)).clm.	102
<input type="checkbox"/>	L18	(angiogenesis or tumor or vasculature or extracellular or foetal or edb or ed-b).clm.	9892
<input type="checkbox"/>	L19	L18 and l17	39

Updated search 5/13/04

END OF SEARCH HISTORY

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☐ 1. [6696276](#). 13 Jan 03; 24 Feb 04. Vasopermeability-enhancing conjugates. Epstein; Alan L., et al. 435/69.6; 424/178.1 530/382. C12P021/04 A61K039/44 C07K017/00.

☐ 2. [6689165](#). 30 Mar 01; 10 Feb 04. Surface modifications for enhanced epithelialization. Jacob; Jean T., et al. 623/5.16; 623/5.11. A61F002/14.

☐ 3. [6666893](#). 28 Mar 01; 23 Dec 03. Absorbable tissue expander. Burg; Karen J. L., et al. 623/23.75; 623/23.64 623/23.67 623/23.76 623/8. A61F002/02.

☐ 4. [6660842](#). 19 Sep 00; 09 Dec 03. Ligand/receptor specificity exchangers that redirect antibodies to receptors on a pathogen. Sallberg; Matti. 530/350; 435/7.1 530/324 530/325 530/326 530/331 530/382 530/807. C07K001/00.

☐ 5. [6605751](#). 29 Sep 00; 12 Aug 03. Silver-containing compositions, devices and methods for making. Gibbins; Bruce L., et al. 602/41; 602/43 602/48. A61F013/00.

☐ 6. [6582391](#). 02 Jul 02; 24 Jun 03. Hybrid matrix implants and explants. Mineau-Hanschke; Rochelle. 604/19; 424/93.1 424/93.21 435/289.1 435/297.1 435/325 435/382 604/5.01 604/890.1. A61N001/30 A61M037/00 A61K009/22 A61K048/00 C12N005/00.

☐ 7. [6566074](#). 15 Mar 00; 20 May 03. Methods of modulating cell attachment and migration. Goetinck; Paul F.. 435/7.1; 435/252.3 435/69.1 435/69.7 530/395. G01N033/53 C12P021/06 C12N001/20.

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☐ 9. [6428579](#). 29 Dec 99; 06 Aug 02. Implantable prosthetic devices coated with bioactive molecules. Valentini; Robert F.. 623/23.76; 427/2.13 427/2.24 606/76 623/23.74. A61F002/36.

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☐ 11. [6379667](#). 03 Aug 99; 30 Apr 02. Medical use of matrix metalloproteinase inhibitors for inhibiting tissue contraction. Khaw; Peng Tee, et al. 424/146.1; 424/141.1 514/575. A61K039/395 A61K013/19.

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Terms	Documents
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L19: Entry 1 of 39

File: USPT

Feb 24, 2004

US-PAT-NO: 6696276
DOCUMENT-IDENTIFIER: US 6696276 B2

TITLE: Vasopermeability-enhancing conjugates

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Epstein; Alan L.	La Canada	CA		
Glovsky; Michael	Los Angeles	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
University of Southern California	Los Angeles	CA			02

APPL-NO: 10/ 342426 [PALM]
DATE FILED: January 13, 2003

PARENT-CASE:

RELATION TO RELATED APPLICATION This application is a continuation of U.S. patent application Ser. No. 09/916,883, now U.S. Pat. No. 6,524,823, filed on Jul. 27, 2001, which is a continuation of U.S. patent application Ser. No. 09/382,359, now U.S. Pat. No. 6,274,343, filed on Aug. 24, 1999, which is a continuation of U.S. patent application Ser. No. 08/419,645, now U.S. Pat. No. 6,007,817, filed on Apr. 10, 1995, which is a continuation of U.S. patent application Ser. No. 08/127,988, filed on Sep. 27, 1993, abandoned, which is a continuation of U.S. patent application Ser. No. 07/964,517, filed on Oct. 21, 1992, abandoned, which is a continuation of U.S. patent application Ser. No. 07/417,782, filed on Oct. 4, 1989, abandoned, which is a continuation-in-part of U.S. patent application Ser. No. 07/255,513, filed on Oct. 11, 1988, abandoned. Each of the above mentioned patents is incorporated by reference herein, in its entirety.

INT-CL: [07] C12 P 21/04, A61 K 39/44, C07 K 17/00

US-CL-ISSUED: 435/69.6; 424/178.1, 530/382
US-CL-CURRENT: 435/69.6; 424/178.1, 530/382

FIELD-OF-SEARCH: 435/69.6, 424/178.1, 530/382

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4101380</u>	July 1978	Rubinstein et al.	
<input type="checkbox"/> <u>4110432</u>	August 1978	Wilkinson et al.	
<input type="checkbox"/> <u>4671958</u>	June 1987	Rodwell et al.	
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<input type="checkbox"/> <u>4724212</u>	February 1988	Epstein	
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<input type="checkbox"/> <u>4863726</u>	September 1989	Stevens et al.	
<input type="checkbox"/> <u>4894227</u>	January 1990	Stevens et al.	
<input type="checkbox"/> <u>4975278</u>	December 1990	Senter et al.	
<input type="checkbox"/> <u>5061626</u>	October 1991	Baldo et al.	
<input type="checkbox"/> <u>5241078</u>	August 1993	Moreland et al.	
<input type="checkbox"/> <u>6007817</u>	December 1999	Epstein et al.	424/178.1
<input type="checkbox"/> <u>6274343</u>	August 2001	Epstein et al.	435/69.6
<input type="checkbox"/> <u>6524823</u>	February 2003	Epstein et al.	435/69.6

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8603938	January 1986	WO	

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ART-UNIT: 1648

PRIMARY-EXAMINER: Park; Hankyel T.

ATTY-AGENT-FIRM: Knobbe Martens Olson & Bear LLP

ABSTRACT:

Liposomal conjugates having a clinically useful delivery vehicle linked to a biologically active species which acts to increase vascular permeability and expand blood volume at or in proximity to the tumor site are disclosed. The vehicle-linked species may be, for example, a vasoactive agent, a substance that recruits or amplifies a vasoactive species, a drug, or a pharmaceutical compound. Suitable biological species comprises peptides, lipids, carbohydrates, or their derivatives. Chemical or recombinant DNA methods suitable for linking the species to the vehicles are indicated. A therapy is disclosed which comprises administering the vasoactive conjugate and delivering a diagnostic agent or a therapeutic agent at an optimal time thereafter, when tumor vasculature is maximally affected.

18 Claims, 4 Drawing figures

First Hit Fwd Refs

L19: Entry 15 of 39

File: USPT

Apr 3, 2001

DOCUMENT-IDENTIFIER: US 6210655 B1

TITLE: Site-specific ¹³C-enriched reagents for diagnostic medicine by magnetic resonance imaging

CLAIMS:

2. The magnetic resonance imaging reagent according to claim 1, wherein the site-specific targeting group is an organic compound, peptide, or protein selected from the group consisting of polyclonal antibodies, monoclonal antibodies, single chain antibodies, and Fab fragments.
3. The magnetic resonance imaging reagent according to claim 2, wherein the site-specific targeting group is selected from the group consisting of blood clot targeting groups, .beta.-amyloid plaque targeting groups of Alzheimer's disease, Congo red, and tumor-specific antigen targeting groups.
4. The magnetic resonance imaging reagent according to claim 2, wherein the site-specific targeting group is selected from the group consisting of antifibrin monoclonal antibodies, fibrin-binding domain fragment of fibronectin, activated-platelet binding protein fragment, and inactivated tissue plasminogen activator.
7. The magnetic resonance imaging reagent according to claim 3, wherein the site-specific targeting group is a .beta.-amyloid peptide of Alzheimer's disease.
9. The method according to claim 8, wherein the site-specific targeting group is an organic compound, peptide, or protein selected from the group consisting of polyclonal antibodies, monoclonal antibodies, single chain antibodies, and Fab fragments.
10. The method according to claim 9, wherein the site-specific targeting group is selected from the group consisting of blood clot targeting groups, .beta.-amyloid plaque targeting groups of Alzheimer's disease, Congo red, and tumor-specific antigen targeting groups.
11. The method according to claim 9, wherein the site-specific targeting group is selected from the group consisting of antifibrin monoclonal antibodies, fibrin-binding domain fragment of fibronectin, activated-platelet binding protein fragment, and inactivated tissue plasminogen activator.
14. The method according to claim 10, wherein the site-specific targeting group is a .beta.-amyloid peptide of Alzheimer's disease.

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TITLE: Methods and compositions for the specific coagulation of vasculature

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thorpe; Philip E.	Dallas	TX		
Edgington; Thomas S.	La Jolla	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Board of Regents, The University of Texas System	Austin	TX			02	
The Scripps Research Institute	La Jolla	CA			02	

APPL-NO: 08/ 482369 [PALM]
DATE FILED: June 7, 1995

PARENT-CASE:

The present application is a continuation-in-part of U.S. patent application Ser. No. 08/273,567 (ABN), filed Jul. 11, 1994; which is a continuation-in-part of U.S. patent application Ser. No. 08/205,330, filed Mar. 2, 1994; which is a continuation-in-part of U.S. Ser. No. 07/846,349 (ABN), filed Mar. 5, 1992. The entire text and figures of the above-referenced disclosures are specifically incorporated herein by reference without disclaimer.

INT-CL: [07] A61 K 39/395

US-CL-ISSUED: 424/182; 530/387.3, 530/387.7, 530/387.9, 530/387.1, 530/388.1, 530/388.22, 530/388.85, 530/391.7, 530/391.9, 424/178.1, 424/180.1, 424/179.1

US-CL-CURRENT: 424/182.1; 424/178.1, 424/179.1, 424/180.1, 530/387.1, 530/387.3, 530/387.7, 530/387.9, 530/388.1, 530/388.22, 530/388.85, 530/391.7, 530/391.9

FIELD-OF-SEARCH: 424/182.1, 424/178.1, 424/179.1, 424/180.1, 530/387.1, 530/387.3, 530/387.7, 530/387.9, 530/388.1, 530/388.22, 530/388.85, 530/391.7, 530/391.9

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ART-UNIT: 162

PRIMARY-EXAMINER: Feisee; Lila

ASSISTANT-EXAMINER: Bansal; Geetha P.

ATTY-AGENT-FIRM: Arnold, White & Durkee, P.C.

ABSTRACT:

Disclosed are various compositions and methods for use in achieving specific blood coagulation. This is exemplified by the specific in vivo coagulation of tumor vasculature, causing tumor regression, through the site-specific delivery of a coagulant using a bispecific antibody.

103 Claims, 11 Drawing figures

First Hit Fwd Refs

L19: Entry 20 of 39

File: USPT

Dec 28, 1999

DOCUMENT-IDENTIFIER: US 6008319 A

TITLE: Vasopermeability enhancing peptide of human interleukin-2 and immunoconjugates thereof

CLAIMS:

1. An isolated and purified vasoactive peptide, said peptide comprising a fragment of interleukin-2 containing amino acids 37 to 58 of SEQ ID NO: 3, wherein said fragment and said peptide are substantially free of cytokine activity, and enhance vascular permeability when localized at a target site.
2. A dimer of the vasoactive peptide of claim 1.
3. The peptide of claim 1 consisting of residues 37 to 58 of amino acid sequence SEQ ID NO: 3.
4. The peptide of claim 1 consisting of amino acid sequence SEQ ID NO: 1.
5. The dimer of claim 2, wherein each peptide of the dimer includes at least one cysteine residue, wherein the cysteine residues form the dimer by a disulfide bridge.
6. A conjugate comprising:
 - a) a delivery vehicle that localizes at the site of neoplastic tissue; and
 - b) the vasoactive peptide of claim 1, said peptide being connected to said delivery vehicle.
7. The conjugate of claim 6, wherein the delivery vehicle is a tumor specific monoclonal antibody.
8. The conjugate of claim 7, wherein the monoclonal antibody is selected from the group consisting of a murine antibody, a human antibody, and a chimera of human and murine antibodies.
11. The conjugate of claim 7, wherein the monoclonal antibody is an antibody to HLA-DR antigen, nuclear histone H1, or fibronectin.
12. A fusion protein comprising:
 - a) a delivery vehicle that localizes at the site of neoplastic tissue, the vehicle having at least one terminal amino acid; and
 - b) at least one vasoactive peptide according to claim 1, the peptide being joined to at least one terminal amino acid of the delivery vehicle.
13. The fusion protein of claim 12 further comprising an amino acid linker joining the delivery vehicle and the vasoactive peptide.
14. The fusion protein of claim 12, wherein the at least one vasoactive peptide

comprises two tandemly linked vasoactive peptides.

15. The fusion protein of claim 14 further comprising an amino acid spacer between the two tandemly linked vasoactive peptides.

16. The fusion protein of claim 12, wherein the delivery vehicle comprises at least one antigen binding domain of an immunoglobulin.

17. The fusion protein of claim 12, wherein the delivery vehicle comprises a human-mouse chimeric monoclonal antibody.

18. A vector for the expression of fusion protein, comprising:

a) a fusion protein sequence comprising;

1) a delivery vehicle encoding sequence, wherein said delivery vehicle localizes at the site of neoplastic tissue, and

2) a vasoactive peptide encoding sequence, comprising DNA encoding the vasoactive peptide of claim 1, said peptide encoding sequence having a reading frame aligned with the reading frame of said delivery vehicle encoding sequence; and

b) an expression vector having at least one sequence that directs expression of the fusion protein sequence in cells.

20. A therapeutic kit, comprising:

a) a conjugate, said conjugate comprising:

1) a delivery vehicle that localizes at the site of neoplastic tissue, and

2) the vasoactive peptide of claim 1, said peptide being connected to said delivery vehicle; and

b) an antineoplastic therapeutic agent.

21. A diagnostic kit, comprising:

a) a conjugate, said conjugate comprising:

1) a delivery vehicle that localizes at the site of neoplastic tissue, and

2) the vasoactive peptide of claim 1, said peptide being connected to said delivery vehicle; and

b) a tumor imaging agent.

22. An isolated and purified vasoactive peptide, said peptide consisting of a portion of SEQ ID NO: 3 from amino acid residues 22 to 72 containing amino acid residues 37 to 58 of SEQ ID NO: 3, said portion being 22 to 51 amino acids in length.

23. The peptide of claim 22, wherein the portion of SEQ ID NO: 3 is selected from the group consisting of:

a) amino acid residues 37 to 58:

b) amino acid residues 33 to 58;

c) amino acid residues 22-58; and

d) amino acid residues 37-72.

23

First Hit	Fwd Refs
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May 30, 1995

TITLE: Method for the detection of reactive conditions

1. A method for screening for the presence of a malignant tumor in a patient, comprising:

b) comparing the determined concentration with an average concentration of extra domain A-containing cellular fibronectin or its extra domain A sequence in healthy patients, at least a twofold increase of extra domain A-containing cellular fibronectin or its extra domain A sequence in said sample of said patient, as compared to healthy blood donors, indicating the possible presence of said malignant tumor.

2. A method as claimed in claim 1, wherein the tumor is a carcinoma.

<u>First Hit</u>	<u>Fwd Refs</u>
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End of Result Set

L19: Entry 39 of 39

File: USPT

Jan 16, 1990

DOCUMENT-IDENTIFIER: US 4894326 A

TITLE: Monoclonal antibody defining oncofetal structure of fibronectin

CLAIMS :

1. An immunological binding partner defined by specifically binding with the COOH-terminal region released by cathepsin D digestion of oncofetal fibronectin but not with either normal adult fibronectin or the Hep-2 or Fib-2 fragments released by thermolysin digestion of oncofetal fibronectin.
2. A test kit useful for assaying the presence of oncofetal fibronectin, comprising one or more containers containing the immunological binding partner of claim 1.
6. A method of immunological detection of cells expressing oncofetal fibronectin comprising the steps of reacting biopsied cells with the composition of claim 4 and detecting detectable marker coupled to reacted immunological binding partner on the cells.
8. The method of claim 6 wherein the cells are tumor cells.
11. A hybridoma cell line capable of producing a monoclonal antibody capable of specifically binding with the COOH-terminal region released by cathepsin D digestion of oncofetal fibronectin but not with either normal adult fibronectin or the Hep-2 or Fib-2 fragments released by thermolysin digestion of oncofetal fibronectin.
12. Hybridoma cell line ATCC No. HB9018 according to claim 11.
13. A monoclonal antibody produced by the hybridoma a cell line of claim 11.
14. The monoclonal antibody of claim 13 coupled to a radionuclide.
15. In a method of detecting tumor-associated antigen in blood serum including the steps of contacting the serum with antibody directed to tumor-associated antigen and detecting any reaction between the antibody and serum antigen, the improvement comprising contacting the serum with the antibody of claim 13.
16. A test kit useful for assaying the presence of oncofetal fibronectin, comprising one or more containers containing the monoclonal antibody of claim 13.